

Preface to the 18th edition of the Workshop on Models and Evolution (ME 2024)

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Proceedings



MODELS 24

**ACM/IEEE 27th International Conference on Model Driven
Engineering Languages and Systems**

**General Chairs: Alexander Egyed and Manuel Wimmer
Program Chairs: Marsha Chechik and Benoit Combemale**

Linz, Austria, 22–27 September 2024



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Computing Machinery

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Preface to the 27th International ACM/IEEE Conference on Model Driven Engineering Languages and Systems (MODELS)

Welcome to MODELS 2024, the 27th International ACM/IEEE Conference on Model Driven Engineering Languages and Systems. MODELS is the premier conference series for model-based software and systems engineering since 1998. It covers all aspects of modeling, from languages and methods to tools and applications. The conference is a forum for participants to exchange cutting-edge research results and innovative practical experiences around modeling, modeling languages, and model-based software and systems engineering. Attendees of MODELS come from diverse backgrounds, including researchers, academics, engineers, and industrial professionals. MODELS 2024 is held in Linz (Austria) at the Johannes Kepler University.

MODELS 2024 comprises two main tracks: the Foundations track – encompassing both full papers and new ideas/vision papers (short and long) – and the Practice track. Submissions were reviewed in accordance with the highest established standards of scientific rigor applied in peer reviewing. Each paper was reviewed by at least three members of the program committee and shepherded by one member of the program board committee. Double-anonymous review guidelines were applied for the Foundations track. The reviewers assessed the submissions in terms of their novelty, significance and potential impact, and were instructed to carefully consider weightings across these criteria. All review discussions were overseen by members of a program board and the program committee chairs. Papers with at least one supporter progressed to the second phase, while early reject notifications were sent to papers without any supporting reviews. The second phase started with an optional rebuttal period where authors could address the most important questions of the reviewers. All remaining papers were extensively discussed subsequently

to reach a final recommendation based on consensus. Final decisions were taken in a virtual on-line meeting with the program board.

With the help of the program board and program committee members, we put together an excellent program touching on all aspects of modeling. MODELS 2024 received 124 submissions among which 111 went into the reviewing process, and out of which 26 were finally accepted, making an overall acceptance rate of 23.5%. In more detail, the Foundations track received 80 papers, among which 17 papers were accepted, giving an acceptance rate of 21%. The Practice track received 31 papers, out of which 9 were accepted, with an acceptance rate of 29%. Accepted papers were encouraged to undergo an optional artifact evaluation process. This process acknowledges the considerable effort required to obtain high-quality artifacts, fosters a culture of experimental reproducibility, and provides a peer review and archiving process for artifacts analogous to that of research papers.

The main tracks of the conference were complemented with tool demonstrations and journal-first articles published in *Software and Systems Modeling (SoSyM)*, the flagship journal of the modeling community. In addition, the conference hosted three excellent invited talks, by Joanne Atlee (University of Waterloo, Canada), Thomas Zimmermann (Microsoft Research, USA), and Arie van Deursen (TU Delft, Netherlands). MODELS also hosted poster sessions, the doctoral symposium, the educators symposium, the ACM student research competition (SRC), an industry day, as well as workshops and tutorials. The papers of these satellite events are available in the companion proceedings. The 16th System Analysis and Modeling (SAM) Conference and the 1st International Conference on Engineering Digital Twins (EDTconf) were also co-located with MODELS.

MODELS 2024 would not have been possible without the significant contributions of many individuals and organizations. The MODELS Steering Committee provided invaluable assistance and guidance, whilst the Program Committee and the Program Board undertook with dedication the critical tasks of reviewing and discussing the submissions. We are also grateful to members of the Organizing Committee for making the necessary

arrangements and helping to publicize the conference and prepare the proceedings.

We thank the authors for their efforts in writing and revising their papers in accordance with feedback from the reviewers. We would also like to thank our Platin supporter Fabasoft, Gold supporters Ikarus and Pro2Future, and Silver supporters Siemens, Netgrif, Obeo, Raiffeisen Software, RAITEC IT Services, EclipseSource, LieberLieber, and SparxSystems. We thank the Johannes Kepler University Linz for being the main technical sponsor of this event. Furthermore, ACM, SIGSOFT, IEEE, IEEE Computer Society, and IEEE TCSE are long time technical sponsors of the conference.

Enjoy the conference!

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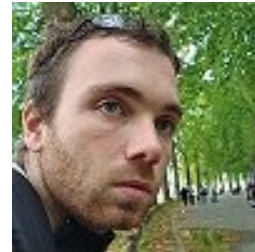
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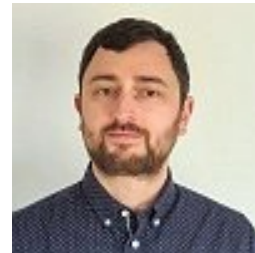
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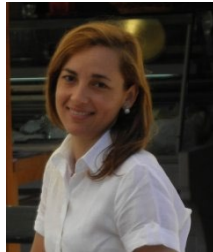
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